

Supplementary Materials for

Synthetic lethality by targeting the RUVBL1/2-TTT complex in mTORC1-hyperactive cancer cells

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This PDF file includes:

Figs. S1 to S10
Table S1

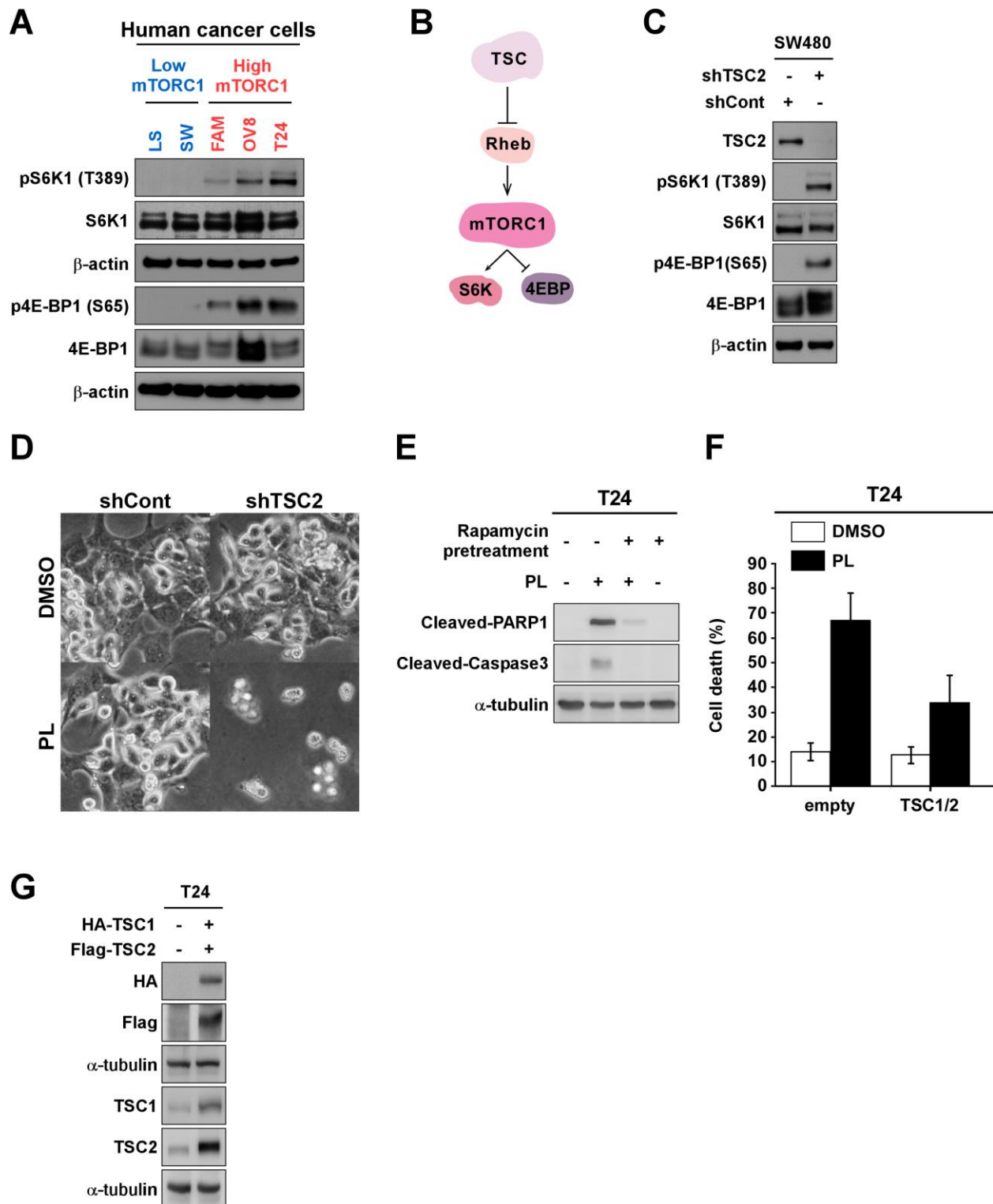


Fig. S1. mTORC1 activity in various cells and effect of PL on cell viability depending on mTORC1 activity. (A) Human cancer cells with varying degree of mTORC1 activity. Human cancer cells with low-mTORC1 activity (LS, LS174T; SW, SW480) and high-mTORC1 activity (FAM, FAMPAC; OV8, OVCAR-8; T24) are shown. (B) The TSC complex is a key negative regulator of mTORC1 signaling

through the deactivation of Rheb, an indispensable factor for mTORC1 activation. When activated, mTORC1 phosphorylates S6K1 and 4E-BP1. **(C)** Knockdown of TSC2 in SW480 cells increases mTORC1 activity. **(D)** Effect of PL on SW480 shControl and SW480 shTSC2 cell viability. SW480 shControl and SW480 shTSC2 cells were treated with PL (10 μ M) for cell death measurement. Representative pictures were taken before measurement of cell death. **(E)** Pretreatment of rapamycin (16 hr) blocks PL-induced apoptosis markers. **(F)** Effect of PL on TSC1/2-overexpressed T24 cell viability. 48 hr after TSC1/2 transfection to T24 cells, PL (10 μ M) was treated for cell death measurement. **(G)** Overexpression of TSC1/2 was confirmed by immunoblotting.

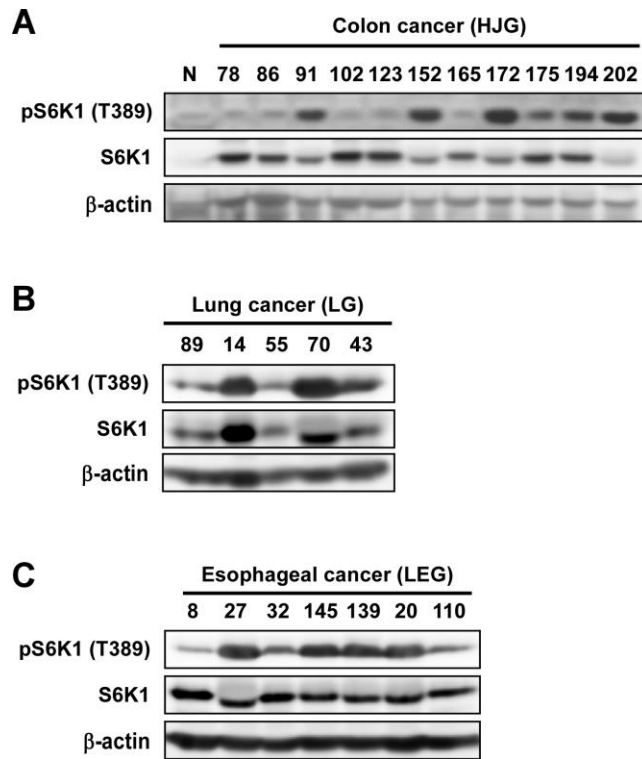


Fig. S2. Analysis of p70S6K1 phosphorylation levels in patient-derived tumor tissues. p-p70S6K1 and p70S6K1 levels of (A) colon, (B) lung and (C) esophageal cancer PDX tumors were measured by immunoblotting.

	Unique A	Total A	Unique B	Total B		Unique A	Total A	Unique B	Total B		Unique A	Total A	Unique B	Total B
ACACA	10	11	9	13	HARS	8	10	3	3	PDIA6	13	17	10	10
ACLY	8	8	7	9	HAT1	9	13	3	3	PGLS	6	8	1	1
ACTA2	8	15	8	17	HNRNPF	8	12	5	5	PHGDH	11	12	0	0
ADA	9	10	0	0	HNRNPH1	6	10	5	7	PKM	19	23	13	18
AHCY	6	6	4	4	HNRNPK	16	24	10	12	PLIN3	15	21	9	11
AHNAK	12	16	14	20	HSD17B4	8	9	7	10	POLD1	6	7	2	2
ALDOA	6	7	2	2	HSP90AA1	8	11	3	3	PPA1	6	8	2	2
ANXA1	9	13	2	3	HSP90B1	6	6	1	1	PPIA	12	14	11	12
ANXA2	26	41	21	34	HSPA1L	7	17	4	8	PPP2R1A	6	6	1	1
ASNS	7	8	5	5	HSPA2	6	10	4	7	PRDX1	14	26	15	27
ATP5A1	6	6	2	2	HSPA5	20	51	17	38	PRMT1	10	11	3	3
ATP6V1A	9	14	4	5	HSPA8	16	42	11	28	PSMD2	7	10	4	4
ATXN10	8	8	1	1	HSPA9	10	21	6	10	PSME2	7	8	1	1
CAD	10	11	4	5	HSPBP1	6	8	0	0	PYGB	6	6	5	6
CBR1	6	6	0	0	HSPD1	24	36	16	20	RARS	11	22	8	16
CCT8	7	7	3	3	IARS	10	12	11	15	RBBP4	6	7	0	0
CDK6	6	6	2	3	IDH3B	6	7	4	5	RCC2	7	7	4	4
CDKN2AIP	7	9	2	2	IPO5	9	14	1	2	RPS3	10	15	6	10
CFL1	6	8	4	4	IQGAP1	18	23	8	12	RPS3A	8	8	3	5
CHEK1	16	21	1	1	IRAK1	9	10	2	2	RPS4X	6	7	0	0
CLTC	10	12	8	12	KARS	8	13	7	10	RPS6KA1	6	8	0	0
CNN2	6	8	3	3	KHSRP	11	15	6	10	RPS6KA3	9	9	0	0
CNN3	8	10	3	3	KPNA2	8	8	1	1	RPS6KA4	11	12	1	1
CORO1B	7	11	2	4	LARS	7	7	7	9	RRM1	6	9	3	3
CRKL	9	11	0	0	LDHA	6	7	3	6	RUVBL1	7	8	3	3
CSDE1	11	11	6	7	LMNA	7	8	4	5	RUVBL2	10	13	6	7
CTPS1	7	12	4	8	MAP4	12	16	9	11	SAMHD1	6	12	4	6
CTTN	16	22	4	4	MARS	7	7	5	6	SEC16A	6	8	1	2
CUL5	11	11	0	0	MAT2A	6	7	3	3	SF3B3	9	11	4	4
DARS	9	10	7	7	MCM3	12	12	8	9	SMC4	6	6	1	2
DDB1	13	14	0	0	MCM7	8	9	3	4	SMTN	7	7	3	4
DDX17	12	17	4	6	MLKL	8	9	0	0	SND1	9	10	5	7
DDX3Y	6	8	4	7	MSH2	6	7	3	4	STAT1	6	7	1	1
DHX15	22	30	3	4	MTHFD1	19	20	13	13	STAT3	7	8	3	3
DHX9	7	7	4	4	MTHFD1L	10	13	5	6	TCAF1	6	7	3	3
DKFZp686J	8	10	7	7	MYH9	18	20	6	7	TMPO	11	18	6	8
DNAJC10	22	53	0	0	NCL	7	8	6	6	TPM3	6	6	0	0
DNAJC9	6	6	2	2	NEK9	19	50	11	14	TSG101	6	6	0	0
DPYSL2	6	8	2	2	NOSIP	7	7	2	3	TTK	11	11	0	0
EEF1A1	27	109	19	33	NUDC	6	6	3	3	TUBA1A	14	78	14	31
EEF1G	6	8	4	4	NUP155	6	9	2	2	TUBB2A	17	77	11	45
EEF2	19	28	0	0	OGFR	11	19	4	4	TUBB3	10	19	6	10
EIF4A1	13	20	8	12	OPA1	6	7	3	4	TUBB6	6	9	4	5
EML3	6	7	1	1	PABPC1	7	12	5	9	TXN	8	31	4	11
ENO1	8	9	3	7	PAICS	6	7	4	5	TXNDC5	8	12	7	8
EPRS	16	18	12	15	PCBP1	7	9	2	2	TXNL1	8	9	1	1
FASN	23	30	17	24	PCMT1	19	45	16	29	UBA1	10	13	5	6
FBXO22	7	7	1	1	PCYT1A	6	6	1	1	VIM	8	10	5	5
FLNA	32	39	27	33	PDCD6IP	22	26	10	12	XPO1	7	11	3	6
G6PD	8	8	2	2	PDIA3	23	27	16	16	XRCC5	7	10	4	4
GART	8	10	6	8	PDIA4	13	14	10	11	ZC3HAV1	6	7	5	7

Fig. S3. Mass spectrometry analysis on biotin-PL pull down. 'A' indicates peptide counts for biotin-PL group and 'B' indicates peptides counts for free PL + biotin-PL group. Among candidates with unique peptide counts higher than 5 in the biotin-PL group, proteins that were reduced 40% or more after free PL competition were selected.

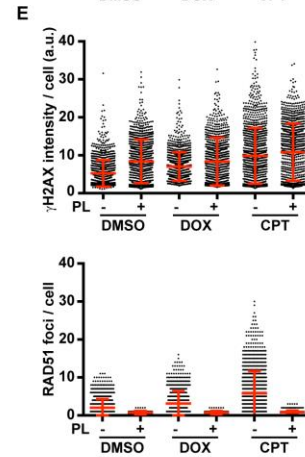
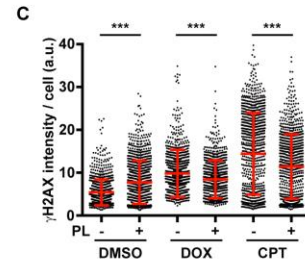
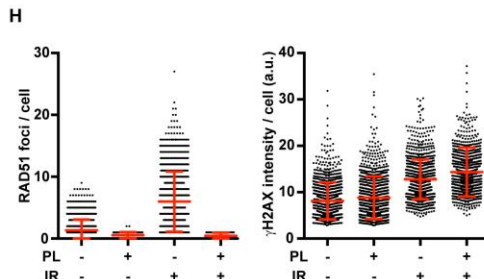
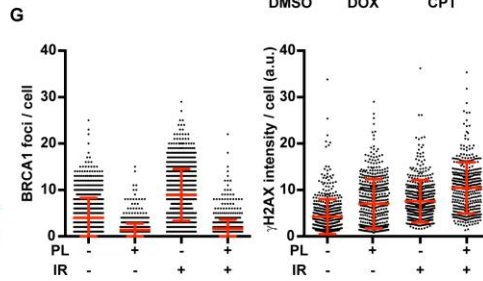
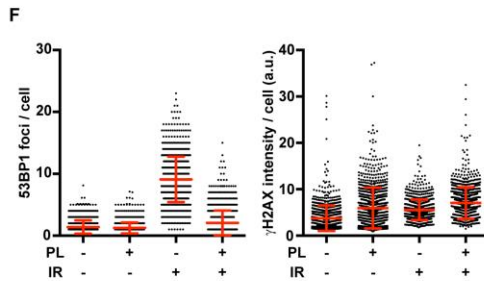
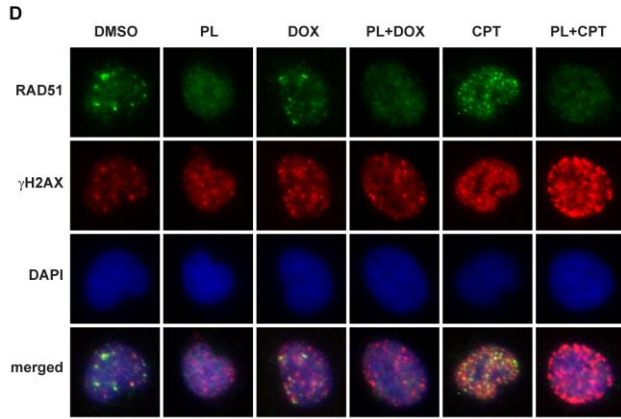
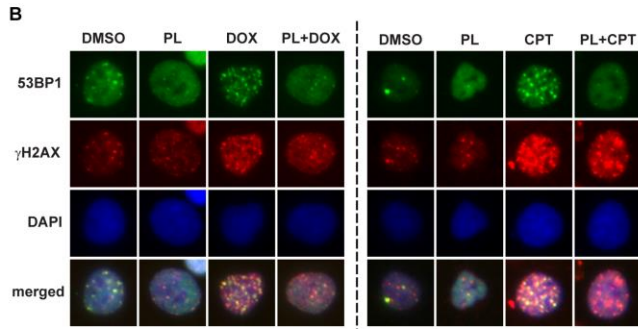
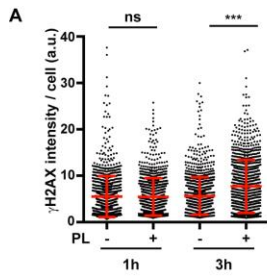


Fig. S4. PL suppresses DNA damage responses. (A) PL was incubated with the cells for 1h or 3h. (B) Representative images showing PL inhibits the foci formation of 53BP1 triggered by endogenous or exogenous DNA damages. The cells are pretreated with PL for 2hr before the addition of DOX (2 μ M) or CPT (1 μ M) for 1hr. The signal of γ H2AX and 53BP1 are monitored by immunofluorescence. Note: CPT majorly induces 53BP1 foci at G1 phase cells. The representative images of CPT-induced foci in G1 phase cells are selectively shown. (C) The intensity of γ H2AX and 53BP1 in cells from fig. S4B was measured, with each cell plotted individually. Mean \pm S.D. is shown. n = 1,000 cells for each condition. (D) Representative images showing PL inhibits the foci formation of RAD51 triggered by endogenous or exogenous DNA damages. The cells are pretreated with PL for 1hr before the addition of DOX (0.1 μ M) or CPT (0.05 μ M) for 3hr. The signal of γ H2AX and RAD51 are monitored by immunofluorescence. (E) The intensity of γ H2AX and RAD51 in cells from fig. S4D was measured, with each cell plotted individually. Mean \pm S.D. is shown. n = 1,000 cells for each condition. (F-H) The intensity of γ H2AX, 53BP1, BRCA1, and RAD51 in cells from Fig. 3F was measured and plotted individually. Mean \pm S.D. is shown. n = 1,000 cells for each condition. ns: not significant and $***p < 0.001$, (unpaired Student's t test).

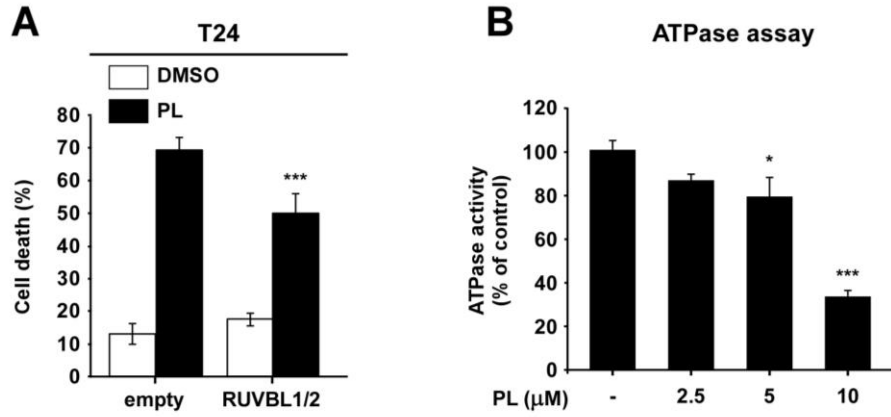


Fig. S5. PL targets the RUVBL1/2-TTT complex. (A) RUVBL1/2 overexpression reduces PL-mediated cell death. 48 hr after RUVBL1/2 transfection in T24 cells, PL (10 μM) was treated for cell death measurement. (B) The effect of PL on RUVBL1/2 ATPase activity. PL was added to RUVBL1/2 and ATPase activity was measured (*, $p < 0.05$; ***, $p < 0.001$, significant difference between PL treated and DMSO treated control).

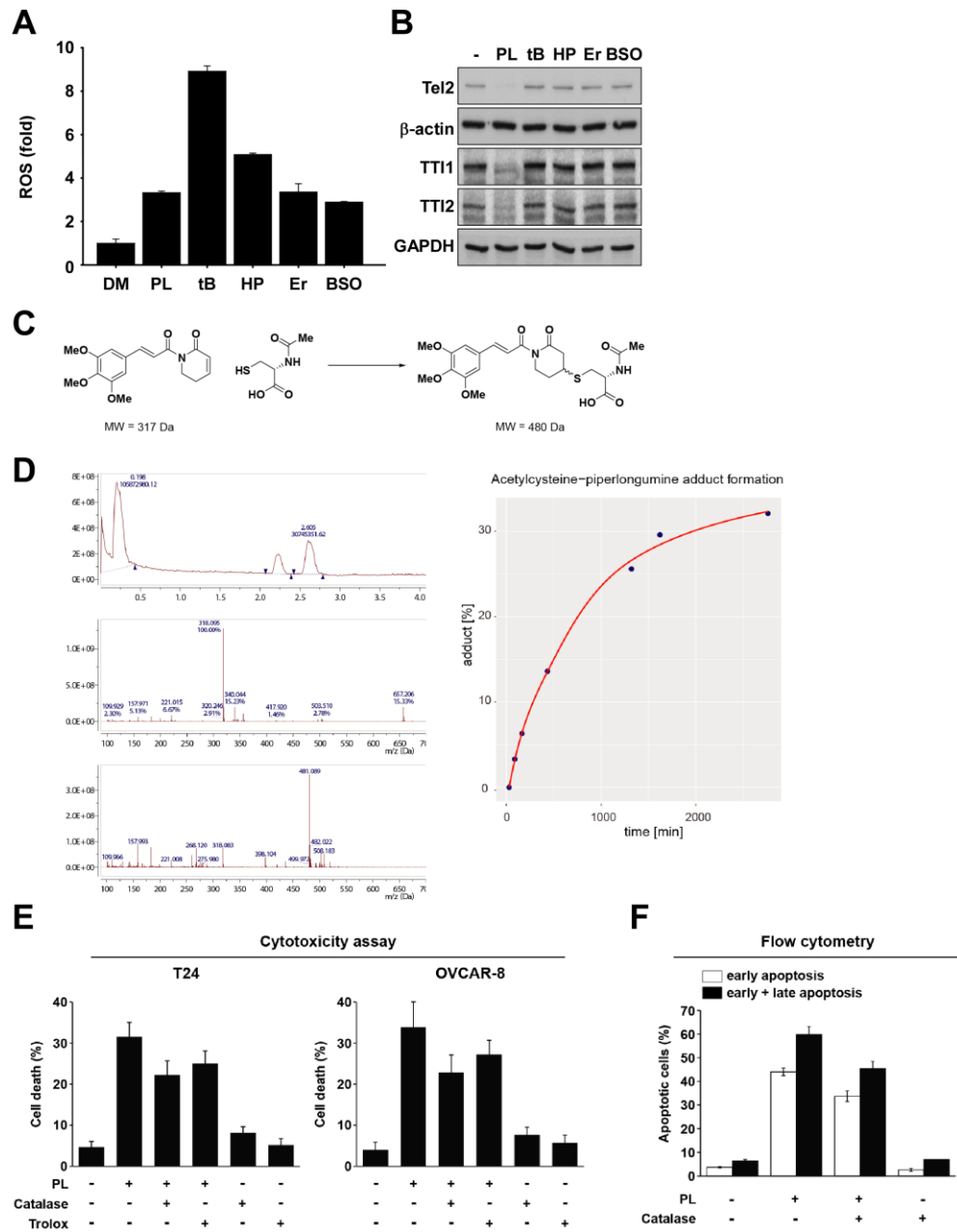


Fig. S6. PL-mediated inhibition of the RUVBL1/2-TTT signaling is ROS-independent. (A) ROS was measured 4 hours after various ROS inducers were treated to OVCAR-8 cells. tB, tert-butyl hydroperoxide; HP, hydrogen peroxide; Er, erastin; BSO, L-buthionine-sulfoximine. (B) Immunoblot was used to examine expression of Tel2, TTI1, and TTI2 after treating various ROS inducers for 6 hours. (C) N-acetylcysteine-PL adduct formation. (D) Peaks corresponding to PL at mass of 318.095 and to adduct at 481.089 were identified. The percent adduct formation was calculated. (E) Catalase (2000 U/ml) and Trolox (750 μ M) were pretreated for 1 hr before PL (10 μ M) was added. Cell death was measured 24 hr after PL treatment. (F) Catalase was pretreated for 1 hr before PL treatment in OVCAR-8 cells. Early apoptosis was measured using the Annexin V-only-positive population, and late apoptosis was measured using the Annexin V and propidium iodide-positive populations.

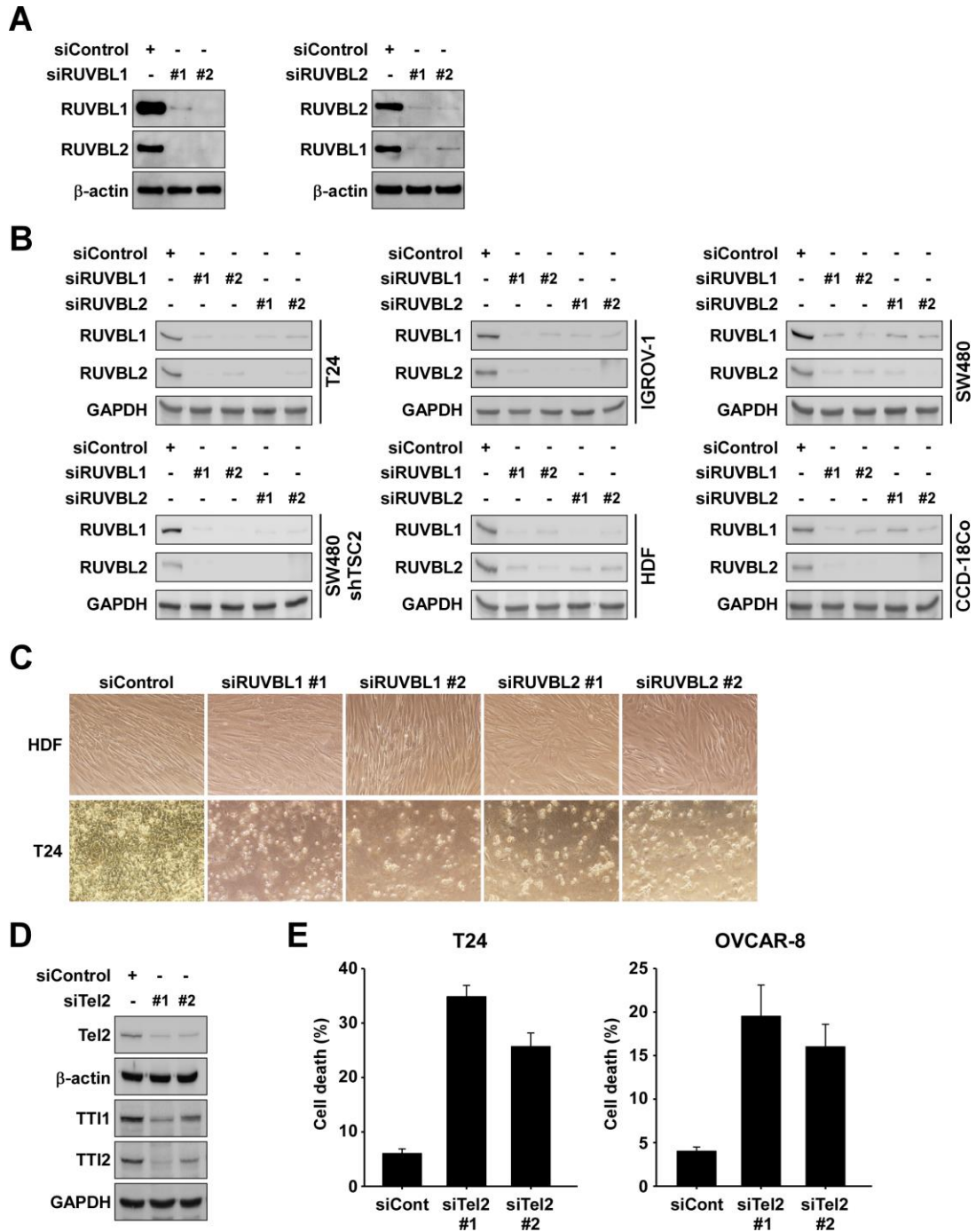


Fig. S7. Effect of RUVBL1/2 and Tel2 knockdown. (A-B) Knockdown of RUVBL1 and RUVBL2 was confirmed by immunoblot in OVCAR-8 cells (A), T24, IGROV-1, SW480, SW480-shTSC2, HDF and CCD-18Co cells (B). (C) Representative pictures of HDF (normal) and T24 (high-mTORC1 cancer) cells after RUVBL1/2 knockdown shows differential effect on viability. Pictures were taken 6 days (HDF) or 5 days (T24) after siRUVBL1/2 transfection. (D) Expression levels of TTT proteins after Tel2 knockdown were examined by immunoblot in T24 cells. (E) Cell death was measured 5 days after siTel2 transfection in T24 and OVCAR-8 cancer cells.

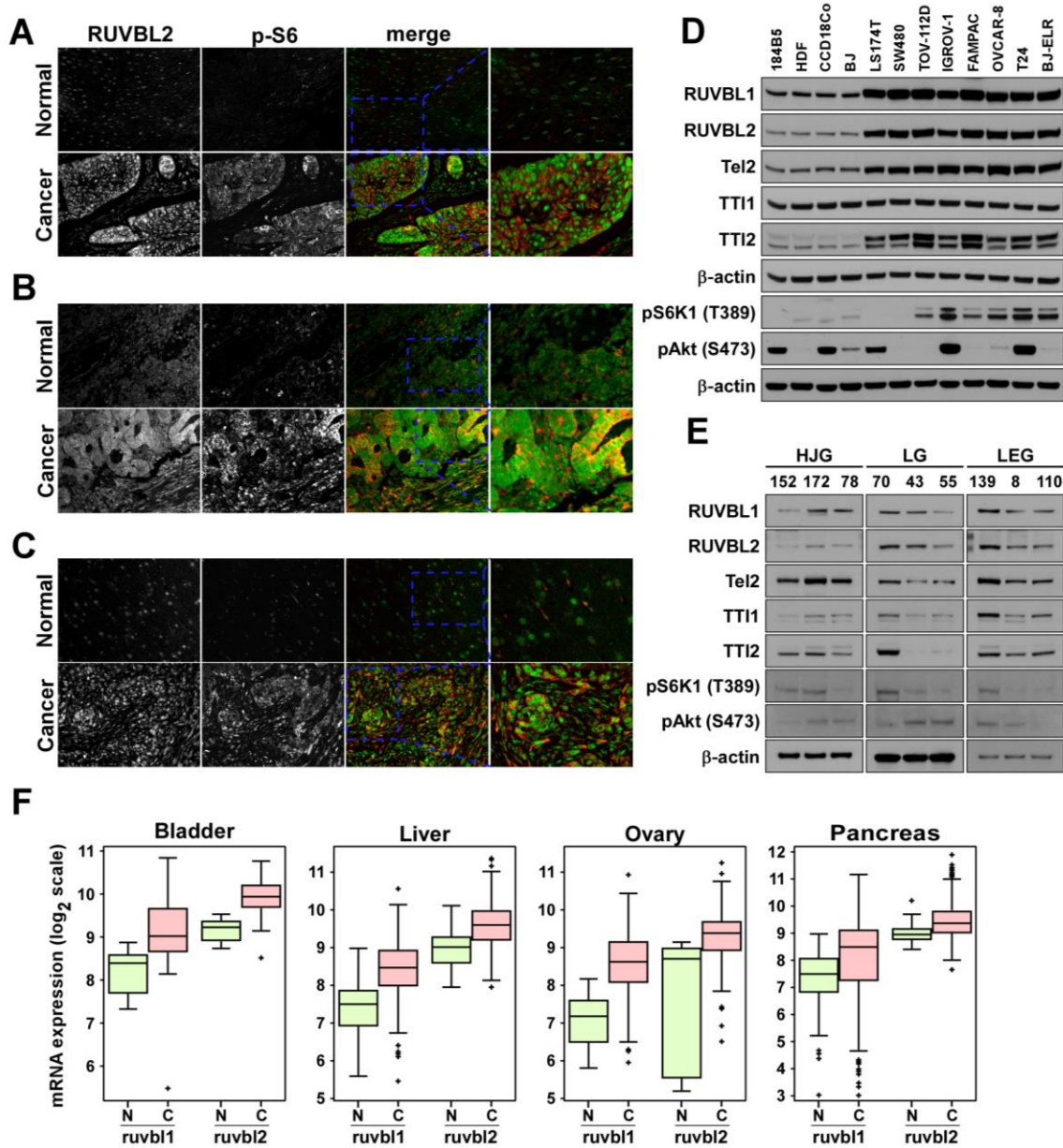


Fig. S8. Expression of RUVBL1/2-TTT complex components. Pictures of RUVBL2 (green) and phospho-S6 (red) staining from (A) esophagus cancer and its corresponding normal tissue, (B) lymph node cancer and its corresponding normal tissue, and (C) invasive squamous cell carcinoma of the skin and its corresponding normal tissue. Higher magnification of the merged picture is shown in the last panel. (D) Various cell lines were examined for RUVBL1/2, Tel2, TTI1, TTI2, p-p70S6K1, and p-Akt expression using the corresponding antibody. (E) Patient-derived primary tumors were analyzed for RUVBL1/2, Tel2, TTI1, TTI2, p-p70S6K1, and p-Akt expression using the corresponding antibody. (F) mRNA levels of *ruvbl1* and *ruvbl2* in human samples. Gene expression in 883 tumor and normal human tissue samples from three data sets (Gene Expression Omnibus, ArrayExpress, and Expression Project for Oncology) were analyzed using GENT. N, normal; C, cancer. All comparisons between normal and cancer: $p < 0.002$.

No	Coordinate	Sex	Age	Key word	
1	A	1,2	f	55	Brain: glioblastoma
2		3	f	55	Non neoplastic from A1,2
3		4,5	m	28	Skin: invasive squamous cell carcinoma
4		6	m	28	Non neoplastic from A4,5
5		7,8	m	69	Lymph node: tumor metastasis
6		9	m	69	Non neoplastic from A7,8
7	B	1,2	m	67	Esophagus: squamous cell carcinoma
8		3	m	67	Non neoplastic from B1,2
9		4,5	m	70	Larynx: invasive squamous cell carcinoma
10		6	m	70	Non neoplastic from B4,5
11		7,8	f	75	Lung: papillary adenocarcinoma
12	9	f	75	Non neoplastic from B7,8	
13	C	1,2	m	49	Hypopharynx: invasive squamous cell carcinoma
14		3	m	49	Non neoplastic form C1,2
15		4,5	m	61	Tonsil: squamous cell carcinoma
16		6	m	61	Non neoplastic form C4,5
17		7,8	f	43	Breast: infiltrating ductal carcinoma
18		9	f	43	Non neoplastic form C7,8
19	D	1,2	f	25	Thyroid gland: papillary carcinoma
20		3	f	25	Non neoplastic from D1,2
21		4,5	m	42	Stomach: signet ring cell carcinoma
22		6	m	42	Non neoplastic from D4,5
23		7,8	f	36	Cervix: invasive squamous cell carcinoma
24		9	f	36	Non neoplastic from D7,8
25	E	1,2	f	75	Gallbladder: papillary adenocarcinoma
26		3	f	75	Non neoplastic from E1,2
27		4,5	m	62	Pancreas: adenocarcinoma
28		6	m	62	Non neoplastic from E4,5
29		7,8	f	40	Ovary: endometrioid adenocarcinoma
30		9	f	40	Non neoplastic from E7,8
31	F	1,2	m	52	Liver: hepatocellular carcinoma
32		3	m	52	Non neoplastic from F1,2
33		4,5	f	75	Colon: adenocarcinoma
34		6	f	75	Non neoplastic from F4,5
35		7,8	m	65	Prostate: adenocarcinoma
36		9	m	65	Non neoplastic from F7,8
37	G	1,2	f	58	Kidney renal cell carcinoma
38		3	f	58	Non neoplastic from G1,2
39		4,5	m	48	Urinary bladder: adenocarcinoma, signet ring cell carcinoma
40		6	m	48	Non neoplastic from G4,5
41		7,8	m	19	Testis: germ cell tumor
42		9	m	19	Non neoplastic from G7,8

Fig. S9. Human tissue array information.

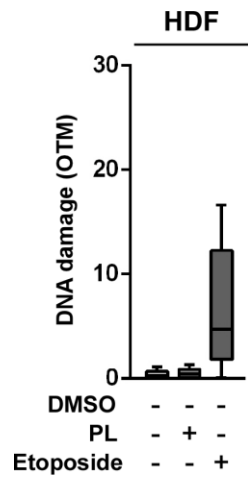


Fig. S10. Effect of PL and etoposide on DNA damage in human dermal fibroblasts (HDF). Cells were treated with PL (10 μ M) or etoposide (40 μ M) for 14 hours and collected for DNA damage measurement using comet assay. DNA damage was quantified based on the Olive Tail Movement (OTM) value, automatically calculated using a computer program, CometScore.

Table S1. Screening results for selective cytotoxicity in SW480 shTSC2 (KD) and SW480 shControl (WT) cells.

Compound	KD-WT (RFU)
Piperlongumine	21.466
ABT-199	20.9765
Ivermectin	20.5855
Sertaconazole (nitrate)	20.56
Thiostrepton	19.8095
LDK378	18.0655
Selamectin	16.8985
Otilonium (bromide)	16.089
Butoconazole (nitrate)	14.608
Triclosan	12.82
Miconazole (nitrate)	12.446
Sertraline (hydrochloride)	12.132
Nelfinavir (Mesylate)	10.8445
Ropinirole (hydrochloride)	10.73
Azelnidipine	10.599
Penfluridol	10.448
Cobimetinib (hemifumarate)	10.0265
Propyphenazone	9.5865
Oxiconazole nitrate	8.4555
Benidipine (hydrochloride)	8.3565
Tamoxifen	7.8985
Efavirenz	7.833
SP600125	7.774
Sofalcone	7.587
Fenticonazole (Nitrate)	6.956
Ticagrelor	6.92
Menadione bisulfite (sodium)	6.836
Clotrimazole	6.6435
Octenidine (dihydrochloride)	6.593
Ethacridine (lactate)	6.255
Hexylresorcinol	6.2015
Olanzapine	6.18
Belinostat	6.01
Regorafenib (monohydrate)	6.0075
Lomitapide	5.9035
Clofazimine	5.765
Raloxifene (hydrochloride)	5.36
Regorafenib (Hydrochloride)	5.128
Regorafenib	5.086
Ciclopirox	5.085
Felodipine	5.084

Acriflavine	5.082
Mometasone furoate	4.82
Phenoxybenzamine (hydrochloride)	4.742
Testosterone (propionate)	4.653
Lacidipine	4.342
Isoconazole (nitrate)	4.3065
BIBF 1120 (esylate)	4.2405
Candesartan (Cilexetil)	4.0325
MLN9708	3.978
Carfilzomib	3.929
AZD-9291	3.906
Polaprezinc	3.869
Duloxetine (hydrochloride)	3.8615
Salmeterol (xinafoate)	3.7395
Afatinib (dimaleate)	3.7115
Vortioxetine (hydrobromide)	3.61
Ponatinib	3.596
Fluvoxamine (maleate)	3.586
Fluoxetine (hydrochloride)	3.5635
Orlistat	3.563
Fingolimod	3.538
Chloranil	3.46
Disulfiram	3.4135
Rotigotine (Hydrochloride)	3.3315
Trimebutine (maleate)	3.298
Cabozantinib	3.2865
Vinblastine (sulfate)	3.2795
Prazosin (hydrochloride)	3.1495
Paroxetine (hydrochloride)	3.1055
Palbociclib (isethionate)	3.0585
Bortezomib	2.927
Reserpine	2.9095
Oxybutynin	2.856
Norethindrone acetate	2.821
Trihexyphenidyl (hydrochloride)	2.8105
Nebivolol (hydrochloride)	2.776
Ibuprofen piconol	2.759
Vorapaxar	2.715
mitomycin C	2.68
ABT-333	2.663
Hexachlorophene	2.6375
Panobinostat	2.6075
Artemether	2.6035
veteprofin	2.5675
Domiphen (bromide)	2.565

(E)-oxyresveratrol	2.563
Triflupromazine (hydrochloride)	2.5515
Clomiphene (citrate)	2.46
Diphenyleneiodonium chloride	2.455
Propafenone (hydrochloride)	2.4245
Dovitinib (lactate)	2.42
Cetylpyridinium (chloride monohydrate)	2.396
Amsacrine	2.373
Ethacridine (lactate monohydrate)	2.361
LX1606 (Hippurate)	2.318
Flunarizine (dihydrochloride)	2.316
Memantine (hydrochloride)	2.3155
Benzyl benzoate	2.313
Lopinavir	2.3095
Trametinib (DMSO solvate)	2.2935
Artemisinin	2.286
Pamidronic acid	2.2715
Nicardipine (Hydrochloride)	2.2405
Chlorquinaldol	2.2325
Sorafenib	2.199
Cabozantinib (S-malate)	2.192
Trametinib	2.19
Loratadine	2.188
Valnemulin (Hydrochloride)	2.1755
Nilvadipine	2.165
Cinacalcet (hydrochloride)	2.1565
Doxycycline (hyclate)	2.152
Theophylline (1,3-Dimethylxanthine)	2.144
Honokiol	2.117
Malotilate	2.0995
Chlorhexidine	2.064
Brexpiprazole	2.044
Retapamulin	2.001
Rolapitant	1.982
Cinnarizine	1.9505
Toremifene (Citrate)	1.905
Cilnidipine	1.881
Nafamostat (mesylate)	1.8695
Elvitegravir	1.8415
Dihydroergotoxine (mesylate)	1.8405
Afatinib	1.833
Afatinib	1.8195
Amlodipine (maleate)	1.817
Antipyrine	1.804
Ethinodiol (diacetate)	1.779

Polidocanol	1.771
Ciclesonide	1.742
(E)-Oxyresveratrol tetra methyl ether [(E)-OTME]	1.7215
Meticrane	1.72
Sertindole	1.704
Topiramate	1.701
Thiamine hydrochloride	1.696
Meropenem (trihydrate)	1.6828
Trifluoperazine (dihydrochloride)	1.68
Beclometasone dipropionate	1.6755
Hydroxyprogesterone caproate	1.671
Vincristine (sulfate)	1.67
Cyproheptadine (hydrochloride sesquihydrate)	1.666
Carvedilol	1.6585
gomisin N	1.648
schisandrin B	1.6455
Mebendazole	1.6295
Oxybutynin (chloride)	1.6245
Dipyridamole	1.608
Lafutidine	1.602
Cinacalcet	1.6
Fenofibrate	1.589
Diethylstilbestrol	1.571
Tamoxifen (Citrate)	1.564
Dolutegravir	1.563
rotenone	1.5475
Nitroprusside (disodium dihydrate)	1.542
Flibanserin	1.537
Butylated Hydroxytoluene	1.471
Conivaptan (hydrochloride)	1.454
1,1-dimethylbiguanide hydrochloride	1.449
Garenoxacin (Mesylate hydrate)	1.422
Rotigotine	1.42
Acarbose	1.3993
Progesterone	1.3985
Elafibranor	1.398
Isoproterenol	1.391
Vinorelbine (ditartrate)	1.3895
Rupatadine (Fumarate)	1.388
Arbutin	1.384
Tilorone (dihydrochloride)	1.3695
Cortisone (acetate)	1.3552
Amiodarone (hydrochloride)	1.3525
Triamcinolone (acetonide)	1.328
9-Aminoacridine	1.3195

Betaxolol (hydrochloride)	1.312
Edoxaban (tosylate monohydrate)	1.3015
Simeprevir	1.301
5,7-dihydroxy-4'-methoxyisoflavoneBiochanin A	1.2945
3-Coumaric acid	1.284
Fludrocortisone (acetate)	1.278
Stiripentol	1.267
Vinblastine	1.2615
josamycin	1.2545
Bephenium (hydroxynaphthoate)	1.2386
Surforaphane	1.2305
Nisoldipine	1.224
Shogaol	1.221
Entrectinib	1.2195
Cilazapril (monohydrate)	1.213
Surforaphene	1.2075
Oxeladin (citrate)	1.198
Nilotinib	1.193
Rivaroxaban	1.19
Clevidipine	1.1825
Tolvaptan	1.18
Benzyl Isothiocyanate	1.1755
Gefitinib	1.173
(+)-Naringenin,approx	1.165
Sulconazole (nitrate)	1.1635
AICAR	1.16
Pentamidine (isethionate)	1.159
Gemfibrozil	1.15
Amorolfine (hydrochloride)	1.148
Dimethyl fumarate	1.1455
Nitrendipine	1.145
Surforaphane-cys	1.1445
Toceranib (phosphate)	1.1425
Magnolol	1.141
Oritavancin (diphosphate)	1.1395
Saquinavir	1.135
Iberin	1.1315
Etofenamate	1.1305
Sulfacarbamide	1.1265
Artesunate	1.126
Butamben	1.121
Retinoic acid	1.116
Temocapril (hydrochloride)	1.092
Mifepristone	1.0785
Gliquidone	1.0755

6,7,4'-Trihydroxyisoflavone	1.0685
Tazarotene	1.068
Idebenone	1.051
Cefdinir	1.0415
Cyclosporin A	1.04
Anisyl acetone	1.0395
Hydroxyzine (dihydrochloride)	1.034
Flavoxate (hydrochloride)	1.0315
Gingerenone A	1.027
Losartan	1.0031
Pheniramine (Maleate)	1
Quinapril (hydrochloride)	0.998
Digoxin	0.983
dihydrocapsaicin	0.9755
Isotretinoin	0.9745
Cefamandole (nafate)	0.973
Solifenacin (Succinate)	0.9715
Phenethyl isothiocyanate	0.9695
Manidipine (dihydrochloride)	0.967
Terconazole	0.96
6-NBDG	0.954
Tebipenem pivoxil	0.951
Ouabain (Octahydrate)	0.951
Evodiamine	0.949
Amezinium (methylsulfate)	0.931
Isogarcinal	0.93
4-Hydroxy-3-methoxycinnamaldehyde	0.9265
butein	0.917
5-Azacytidine	0.917
Apocynin	0.915
Riboflavin Tetrabutryate	0.9055
trans-Cinnamic acid	0.904
Curcumin	0.8985
Biperiden (Hydrochloride)	0.8985
Glycyrrhizin, Ammonium salt	0.8925
Dabigatran etexilate	0.8875
caffeine	0.884
Rimantadine (hydrochloride)	0.88
Zoledronic acid (monohydrate)	0.873
Brinzolamide	0.87
dimethoxy-4-hydroxycinnamaldehyde (D4H)	0.8695
Gingerol	0.8685
Luteolin	0.8625
Anidulafungin	0.86
Demeclocycline (hydrochloride)	0.8595

Nifuratel	0.8575
Deracoxib	0.85
Juglon	0.848
Nilotinib (monohydrochloride monohydrate)	0.846
2-Hydroxycinnamic acid	0.834
AS(Arsenic)	0.834
Palbociclib (hydrochloride)	0.834
Itraconazole	0.8315
Meglumine	0.8315
Posaconazole	0.827
Estriol	0.827
Irsogladine	0.818
Racecadotril	0.816
Cabazitaxel	0.8135
Azathioprine	0.812
Acetylleucine	0.806
Sorafenib (Tosylate)	0.799
Glutathione	0.799
Gefitinib	0.7935
Bexarotene	0.7925
Hesperidin	0.792
Trolox	0.79
citric acid	0.788
Gentisic acid	0.7865
tet-hydrocurumin	0.7865
Perphenazine	0.784
sinigrin	0.783
Canagliflozin	0.783
Cyanidin	0.7805
Levonorgestrel	0.776
CATECHIN	0.7755
Diiodohydroxyquinoline	0.7755
Glycyrrhizin	0.763
Ledipasvir	0.7595
Indol-3-carbinnol	0.7555
Clobetasol propionate	0.753
Daidzin	0.752
capsiate	0.748
Ginsenoside Rh1	0.746
Tauroursodeoxycholate (Sodium)	0.743
cyclo-pamine	0.7405
Docusate (Sodium)	0.719
Benzbromarone	0.718
Fosaprepitant (dimeglumine)	0.718
7,8,4'- trihydroxyisoflavone	0.716

Podophyllotoxin	0.7085
Compound K	0.7075
Compound C	0.707
Actinomycin D	0.704
Glycyrrhetic Acid	0.699
Moxifloxacin (Hydrochloride)	0.6945
Dexamethasone (acetate)	0.6915
1,2-bis-3,4,5-trimethoxy phenyl ethene (bis-TPE)	0.6835
DATS	0.6825
Quinidine	0.682
Iloperidone	0.6785
trihydroxyisoflavone (7,3',4'-THI)	0.675
Galcinol	0.6745
Camostat (mesylate)	0.6715
Lenvatinib	0.6695
Carbenicillin (disodium)	0.667
4-Hydroxy-3-methoxybenzoic acid (Vanillic acid)	0.6665
Brigatinib	0.665
Fludarabine (phosphate)	0.663
Taurine	0.662
Chlorprothixene	0.6615
Nimodipine	0.6605
Prulifloxacin	0.6605
Hydrocortison	0.66
Fosphenytoin (disodium)	0.658
Fluticasone (propionate)	0.655
3,4-Dihydroxyhydrocinnamic acid (Hydroxcaffeic acid)	0.654
Glutamate	0.653
Cinobufotalin	0.6475
Atovaquone	0.643
Gatifloxacin	0.642
Pomalidomide	0.6375
Nodakenin	0.6365
Tiratricol	0.636
Solifenacin	0.631
Ethyl homovanillate	0.6305
Selumetinib	0.627
Gemcitabine	0.6265
Carmustine	0.6225
Loteprednol Etabonate	0.619
Proguanil	0.6125
Tolcapone	0.6085
Ulipristal (acetate)	0.6085
Pirarubicin	0.6
Avobenzone	0.5975

Ruthenium red	0.597
Orotic acid	0.595
Pantoprazole (sodium)	0.5895
Teniposide	0.5885
Ginsenoside Rh2	0.5885
Gestodene	0.5885
IOCM1	0.587
Protriptyline (hydrochloride)	0.585
6-Mercaptopurine	0.584
Na3NO4 YA	0.582
Trimetazidin	0.574
Amphotericin B	0.5735
Albendazole	0.569
Bethanechol (chloride)	0.5635
Ginsenoside f2	0.5625
Cisplatin	0.5595
peonidin	0.5585
tert-Butylhydroquinone	0.557
Ledipasvir (D-tartrate)	0.5545
Tyrosol	0.554
Rifapentine	0.5525
Lapatinib	0.5495
sesamol, minimum 99% TLC	0.5475
Glibenclamide	0.536
spermidine S2626-1G	0.532
carosol	0.5315
Decloxizine (dihydrochloride)	0.531
Rotundine	0.5305
Desvenlafaxine (succinate hydrate)	0.5255
Tolperisone (hydrochloride)	0.5253
Sinapin aldehyde	0.525
Jaceosidin	0.5235
Levofloxacin	0.5235
Nifedipine	0.5225
Diindolylmethane	0.5215
Decursinol angelate	0.521
t,t-Farnesol	0.5205
Cidofovir	0.519
Lasofloxifene (Tartrate)	0.5185
Besifloxacin (Hydrochloride)	0.517
Colchicine	0.516
gomisin A	0.5135
Norethindrone	0.513
Hydroxyfasudil	0.509
Rosmarinic acid	0.506

Amiloride (hydrochloride)	0.503
Ziprasidone (hydrochloride monohydrate)	0.501
Pazopanib	0.498
Nitrofurazone	0.492
Mitiglinide (Calcium)	0.492
Hirsutenone	0.488
Tropisetron (Hydrochloride)	0.4845
Loperamide (hydrochloride)	0.4835
Indomethacin	0.481
Tegafur	0.4805
Pranlukast	0.4805
Paclitaxel	0.48
Caffeic acid phenethyl ester	0.479
Rifabutin	0.4705
Gadodiamide	0.4695
Irbesartan	0.4675
Tedizolid	0.4675
Metoclopramide (hydrochloride hydrate)	0.4675
Myricetin	0.466
Canagliflozin (hemihydrate)	0.463
Dinoprost (tromethamine salt)	0.4625
Cabergoline	0.4615
capsazepine	0.4595
Prucalopride	0.453
Estradiol (benzoate)	0.452
Procaine (hydrochloride)	0.451
Enterolacton	0.4505
D-Mannitol	0.4485
Ronidazole	0.4455
SYRINGIC ACID	0.444
4-Chloro-3-methylphenol	0.4425
Topotecan (Hydrochloride)	0.4405
Acacetin	0.439
Darifenacin (hydrobromide)	0.4375
Halcinonide	0.437
Levosulpiride	0.4365
Estrone	0.4345
5-Fluorouracil	0.433
Tranlycypromine (hemisulfate)	0.432
Docetaxel	0.4315
Oxymetazoline (hydrochloride)	0.4315
Diatrizoic acid	0.431
2-Ethoxybenzamide	0.43
Riluzole	0.4295
Enzalutamide	0.4285

Mafenide (Acetate)	0.421
propionic acid	0.4185
Sparfloxacin	0.4175
Genistein	0.413
Ondansetron (hydrochloride dihydrate)	0.411
Tiamulin (fumarate)	0.4085
Fadrozole	0.407
Pilocarpine (Hydrochloride)	0.407
Carbinoxamine maleate salt	0.4064
Colistin (sulfate)	0.4045
Piperazine	0.4035
Methazolamide	0.4035
caffeic acid	0.4035
Bromhexine (hydrochloride)	0.403
Thiamine monochloride	0.403
schisandrin C	0.4015
Methicillin (sodium salt)	0.4015
Silibinin	0.3995
Cloperastine fendizoate	0.399
Erucin	0.3985
Adefovir dipivoxil	0.398
pelargonidin	0.397
Eptifibatide	0.3965
Iopamidol	0.396
Prasugrel	0.3905
Nitrofurantoin	0.39
Adenosine	0.3895
(R)-Lansoprazole	0.3875
Cyclophosphamide	0.3865
Seratrovast	0.386
Fulvestrant	0.3825
Gossypin	0.382
Bufexamac	0.381
Tetracaine (hydrochloride)	0.38
Vincamine	0.3775
Abiraterone (acetate)	0.377
Mycophenolate mofetil	0.377
6-Gingerol	0.376
Vitamin K1	0.3755
SINAPIC ACID, 98% titration	0.3755
Trimethylether	0.3745
isorhamnetin	0.374
Ruxolitinib (phosphate)	0.3715
Desonide	0.37
Diltiazem (hydrochloride)	0.3635

Danazol	0.3625
Hydrocortisone	0.3615
Asenapine (hydrochloride)	0.3615
Valbenazine	0.3605
Ritonavir	0.359
Estradiol	0.359
Droperidol	0.355
Chlormadinone (acetate)	0.354
Pimavanserin tartrate	0.3535
Glipizide	0.353
Pranlukast (hemihydrate)	0.3525
Demethylsuberosin	0.35
Levetiracetam	0.3495
Vitamin C	0.3485
Adrenalone (hydrochloride)	0.348
Argatroban (monohydrate)	0.3475
Gabexate (mesylate)	0.3475
Stibogluconate (sodium)	0.347
Leuprolide Acetate	0.3465
Methylbenactyzium Bromide	0.346
Valpromide	0.345
Dabigatran etexilate (mesylate)	0.3445
Benzocaine	0.3435
Cefotiam (hydrochloride)	0.3435
Antazoline (hydrochloride)	0.3415
Apatinib	0.3415
5-Deoxykaemferol	0.341
Ritodrine (hydrochloride)	0.341
Olmесartan (medoxomil)	0.339
Clomipramine (hydrochloride)	0.3385
Adrafinil	0.337
Metoclopramide	0.3365
Pazufloxacin (mesylate)	0.335
Biochanin A	0.3335
Haloperidol	0.3305
Erythromycin	0.33
Ramatroban	0.33
Ajmaline	0.33
Nitazoxanide	0.329
Artemotil	0.327
Latanoprost	0.327
capsaicin	0.326
Fusidic acid (sodium salt)	0.3255
Vitamin B12	0.325
Isradipine	0.325

Primaquine (Diphosphate)	0.3245
Sodium Picosulfate	0.3235
GS-7340 (fumarate)	0.3235
Fosfluconazole	0.3225
Orphenadrine (citrate)	0.3225
Ciprofibrate	0.3225
Hydroquinone	0.3215
Prostaglandin E2	0.3215
TAK-438 (free base)	0.321
Sulfacetamide (Sodium)	0.3195
Domperidone	0.317
Pyriethoxin (dihydrochloride)	0.316
Octocrylene	0.316
Fotemustine	0.3155
Chlortetracycline (hydrochloride)	0.315
Alprenolol (hydrochloride)	0.3145
Oxcarbazepine	0.3115
Trelagliptin (succinate)	0.311
Fluphenazine (dihydrochloride)	0.31
Rosiglitazone (maleate)	0.3075
Dihydroergotamine (mesylate)	0.307
Cobicistat	0.3065
Mepenzolate (Bromide)	0.3065
Clofarabine	0.3065
Piribedil	0.305
Daunorubicin (Hydrochloride)	0.304
Ethambutol (dihydrochloride)	0.304
Tetracycline	0.3035
Kasugamycin (hydrochloride hydrate)	0.3035
Cyproheptadine (hydrochloride)	0.3025
Spiramycin	0.302
Valdecoxib	0.302
Cetirizine (dihydrochloride)	0.302
Lamivudine	0.3015
Isoliquiritigenin YA (ILT YA)	0.299
Lercanidipine (hydrochloride)	0.2985
Almotriptan (malate)	0.297
Oxaliplatin	0.296
Desmopressin (Acetate)	0.294
Daclatasvir (dihydrochloride)	0.2925
Fertirelin	0.292
Pitolisant (hydrochloride)	0.292
PSI-7977	0.2905
Enterodiol	0.29
Roxithromycin	0.2895

D-Pantothenic acid (sodium)	0.2885
Ivabradine (hydrochloride)	0.2855
Pralidoxime (chloride)	0.2855
Oxethazaine	0.2835
Zileuton	0.2835
Sulbactam	0.2835
Acetohydroxamic acid	0.283
Atorvastatin (hemicalcium salt)	0.2815
3-Hydroxycinnamic acid	0.281
Cephalothin (sodium)	0.281
Glucosamine (hydrochloride)	0.2805
Amifampridine	0.2805
Fenoprofen (Calcium hydrate)	0.2805
zingerone	0.2785
Sulfadiazine	0.2785
CAL-101	0.277
Avibactam (sodium)	0.2755
Moexipril (hydrochloride)	0.275
Donepezil (Hydrochloride)	0.2745
Rifampicin	0.274
Losartan (potassium)	0.2725
3,4-DHPAA (3,3-DDM)	0.2705
Rucaparib (phosphate)	0.2705
Iohexol	0.269
Ethionamide	0.269
Vancomycin (hydrochloride)	0.268
Mefenamic acid	0.2675
Diquafosol (tetrasodium)	0.267
Ospemifene	0.265
Nefopam (hydrochloride)	0.2635
Zafirlukast	0.262
Gossypetin	0.262
Apigenin	0.26
Coumaric acid	0.259
Melatonin	0.2585
Tetrahydrobiopterin	0.2575
Pemirolast (potassium)	0.2565
Capsanthin	0.256
Irinotecan (hydrochloride trihydrate)	0.255
emodin	0.254
Tamibarotene	0.254
Sulfanilamide	0.254
Ornidazole (Levo-)	0.252
Mitotane	0.252
Bromisoval	0.2515

Hydroquinidine	0.25
Nepafenac	0.2495
Bekanamycin	0.249
Dextromethorphan (hydrobromide hydrate)	0.2485
Salbutamol (hemisulfate)	0.247
BCH48	0.2465
Cefazolin (sodium)	0.246
Mesna	0.246
guanidine hydrochloride	0.245
Estramustine (phosphate sodium)	0.243
Vilazodone (Hydrochloride)	0.2415
Daclatasvir	0.2415
Benzydamine (hydrochloride)	0.2415
Pipobroman	0.2415
Sildenafil (citrate)	0.2415
Ranolazine (dihydrochloride)	0.239
Metformin	0.2385
Gamithromycin	0.2385
Acrivastine	0.2375
Cilastatin	0.2375
Ivacaftor	0.236
Levomefolate (calcium)	0.2355
Bucladesine (calcium salt)	0.2355
Buspirone (hydrochloride)	0.2355
Ezetimibe	0.235
Dexamethasone	0.2345
Tinidazole	0.2335
Penicillamine	0.2325
p-Aminosalicylic acid (sodium salt dihydrate)	0.2315
Altretamine	0.2285
Felbinac	0.2285
Trimetazidine (dihydrochloride)	0.228
Efonidipine (hydrochloride monoethanolate)	0.2275
Tolmetin (sodium dihydrate)	0.2275
Saquinavir (Mesylate)	0.2265
Cefotaxime (sodium salt)	0.2265
Amlodipine (besylate)	0.226
Pixantrone (dimaleate)	0.2255
7,3',4'-trihydroxyisoflavone	0.2245
Vandetanib	0.223
Oxiracetam	0.2225
Etidronic acid	0.222
Licochalcone A	0.2215
Tangeretin	0.221
Ifosfamide	0.221

Telaprevir	0.22
Buserelin (Acetate)	0.2195
Sodium Salicylate	0.219
Roflumilast	0.219
Acetylcysteine	0.2185
Aliskiren (hemifumarate)	0.2185
Pivmecillinam (hydrochloride)	0.217
Quetiapine (fumarate)	0.2165
Micafungin (sodium)	0.2155
NS-304	0.215
Regadenoson	0.2145
Dyclonine (hydrochloride)	0.2145
Prilocaine	0.214
Megestrol (Acetate)	0.214
Nitisinone	0.2135
Rebamipide	0.212
Ciprofloxacin hydrochloride	0.2115
Ursodiol	0.21
Daptomycin	0.21
Spectinomycin (dihydrochloride pentahydrate)	0.2075
Amidopyrine	0.2075
Nevirapine	0.2065
Dronedarone	0.206
Lapatinib (ditosylate)	0.2055
Isosorbide	0.205
Clemizole (hydrochloride)	0.205
Cinepazide (Maleate)	0.2035
Prothionamide	0.2035
Perindopril (erbumine)	0.2035
Allopurinol	0.2
Asenapine (maleate)	0.199
Nimorazole	0.199
Aliskiren	0.1975
Epinastine	0.1975
Tolazoline (hydrochloride)	0.197
Naratriptan (hydrochloride)	0.1965
IOC1	0.1955
Mebeverine (hydrochloride)	0.195
Benztropine (mesylate)	0.195
Riboflavin (phosphate sodium)	0.194
Omeprazole	0.193
Crotamiton	0.1925
Piroxicam	0.1925
Nalidixic acid	0.192
Proparacaine (Hydrochloride)	0.191

Reveratrol trimethyl ether (Resveratrol-tri)	0.1905
Pemetrexed (disodium hemipenta hydrate)	0.1905
Chloramphenicol	0.19
Eltrombopag (Olamine)	0.1895
10-Undecenoic acid	0.1895
Vemurafenib	0.189
Cloxacillin (sodium monohydrate)	0.1885
Xylometazoline (hydrochloride)	0.188
Cefonicid (sodium)	0.1875
3,3',5-Triiodo-L-thyronine	0.1865
Diphylline	0.1865
Vecuronium (bromide)	0.1855
Gliclazide	0.185
Piracetam	0.184
Levamisole (hydrochloride)	0.183
Methacycline (hydrochloride)	0.182
Equol	0.181
Methacholine (chloride)	0.181
Dapagliflozin	0.1805
Ibuprofen	0.18
Deoxycholic acid (3 α ,12 α -Dihydroxy-5 β -cholan-24-oic acid)	0.1795
Imatinib (Mesylate)	0.1785
Pirenzepine (dihydrochloride)	0.1775
Theobromine	0.177
Ketanserin	0.1745
Triamcinolone	0.1745
Sulfisoxazole	0.1735
Finasteride	0.172
Adenosine	0.169
Cisatracurium (besylate)	0.169
Repaglinide	0.169
Methoxyphenamine (Hydrochloride)	0.168
Nafcillin (sodium monohydrate)	0.168
Doxylamine (succinate)	0.168
Procainamide (hydrochloride)	0.1665
Clebopride (malate)	0.1665
Acidinium (Bromide)	0.1655
Ethosuximide	0.165
TAK-438	0.163
Pazopanib (Hydrochloride)	0.1625
Praziquantel	0.162
Dropropizine	0.162
Gastrodin	0.1615
Solifenacin (hydrochloride)	0.161
Carbamazepine	0.161

Amineptine	0.161
Estradiol (cypionate)	0.1605
Sarpogrelate (hydrochloride)	0.1595
Guaifenesin	0.159
Cyproterone (acetate)	0.159
Pimecrolimus	0.159
Penicillin G (potassium)	0.1575
Kanamycin (sulfate)	0.157
Enalapril (maleate)	0.1565
Scopolamine (butylbromide)	0.155
Gemcitabine	0.1545
Promazine (hydrochloride)	0.1545
Atazanavir (sulfate)	0.154
Dimenhydrinate	0.153
Cefradine	0.152
Methylene Blue	0.1505
Choline Fenofibrate	0.1495
Clemastine (fumarate)	0.149
Rilpivirine	0.149
Salicylamide	0.148
Doxepin (Hydrochloride)	0.148
CH5424802	0.1475
L-DOPA	0.147
Torsemide	0.1465
Lorcaserin (Hydrochloride)	0.146
Chlorogenic acid	0.1455
Simetryn	0.1455
Bivalirudin (Trifluoroacetate)	0.145
oleuropein	0.145
Teicoplanin	0.144
Piperazine (hexahydrate)	0.1435
Clofibric acid	0.1435
Lithocholic acid	0.142
L-Ascorbic acid	0.142
Rifaximin	0.142
Lactulose	0.1415
Istradefylline	0.141
piperoxan	0.1405
Moxonidine	0.1405
Procarbazine (Hydrochloride)	0.1405
Probucol	0.1395
Metoprolol (Succinate)	0.1395
MALH115	0.139
Zidovudine	0.138
Tiopronin	0.1375

(±)-Bisoprolol (hemifumarate)	0.1375
Valproic acid	0.1375
Carmofur	0.1375
Hespecetin	0.137
Ceftazidime	0.137
Tiotropium (Bromide)	0.1355
3,4,5-trihydroxybenzoic acid (GALLIC ACID)	0.1345
Baricitinib (phosphate)	0.1345
BCH883	0.1335
Penciclovir	0.133
Permethrin	0.133
Enasidenib	0.132
Etretinate	0.131
ellagic acid	0.131
Dabrafenib	0.1305
Verapamil (hydrochloride)	0.13
Bezafibrate	0.1295
Meloxicam	0.1295
Cortisone	0.1295
Cefixime	0.1265
Thiamine nitrate	0.126
Dexrazoxane (Hydrochloride)	0.126
Udenafil	0.1245
Levobetaxolol (hydrochloride)	0.1245
Gimeracil	0.124
Nateglinide	0.124
Setiptiline	0.1235
sulfanilamide	0.1235
Amifostine	0.123
Ranitidine (hydrochloride)	0.1225
Ipratropium (bromide)	0.122
LEE011 (succinate)	0.1215
Tigecycline	0.1185
Tropisetron	0.1185
Tacrolimus (monohydrate)	0.117
Fomepizole	0.117
Parecoxib	0.1165
Dasatinib (hydrochloride)	0.116
Naringin	0.115
Alverine (citrate)	0.115
Bepotastine (Beslilate)	0.1145
Aminoglutethimide	0.1145
Zanamivir	0.113
2-NBDG	0.112
Benzyl alcohol	0.112

Tizanidine (hydrochloride)	0.111
Silodosin	0.111
Metaraminol (tartrate)	0.11
Salsalate	0.1085
Polyvinylpyrrolidone	0.108
Felbamate	0.1075
Oxantel (pamoate)	0.1055
Mexiletine (hydrochloride)	0.1055
Carteolol (hydrochloride)	0.1055
Idoxuridine	0.105
Niacin	0.1045
Ketoconazole	0.104
Sevelamer hydrochloride	0.1025
Etofylline	0.102
Pancuronium (dibromide)	0.101
Doxofylline	0.101
Zolmitriptan	0.101
LN1	0.1
Carprofen	0.1
Anagrelide (hydrochloride)	0.1
Iopanoic acid	0.0995
Proxiphylline	0.0995
Benazepril (hydrochloride)	0.0995
Galanthamine (hydrobromide)	0.099
Terazosin (hydrochloride dihydrate)	0.0985
VANILLIN	0.098
Articaine (hydrochloride)	0.0975
Sivelestat (sodium tetrahydrate)	0.097
Moxalactam (sodium salt)	0.0965
Aldicarb	0.0965
Epigallocatechin gallate	0.096
Firocoxib	0.096
Tetracycline (hydrochloride)	0.0955
(S)-Timolol (Maleate)	0.095
α -Tocopherol	0.0945
Sildenafil	0.0945
Levobupivacaine (hydrochloride)	0.0945
Trazodone (hydrochloride)	0.094
tet-hydrocurumin diol	0.092
Loxapine	0.092
Diphenmanil (methylsulfate)	0.092
Treosulfan	0.092
Promethazine (hydrochloride)	0.0915
Esomeprazole (Magnesium trihydrate)	0.0915
Goserelin (acetate)	0.0915

AN-2690	0.0905
Gluconate (Calcium)	0.09
Ioversol	0.0895
Mupirocin	0.0895
schisandrin A	0.089
Deferoxamine (mesylate)	0.089
Palonosetron (Hydrochloride)	0.088
Risedronic acid	0.088
Butenafine (Hydrochloride)	0.0875
Ilaprazole	0.0875
Methocarbamol	0.087
Mycophenolic acid	0.087
Citalopram (hydrobromide)	0.087
Trimethoprim	0.087
Isopro	0.0865
Budesonide	0.0855
Delavirdine (mesylate)	0.085
Ifenprodil (tartrate)	0.085
Carbazochrome (sodium sulfonate)	0.085
Ketotifen (fumarate)	0.085
Moroxydine (hydrochloride)	0.085
Deferiprone	0.0845
Deferasirox	0.0845
Piceatannol	0.084
Homoharringtonine	0.083
Alvimopan (dihydrate)	0.083
SB203580	0.0825
Tetrahydrozoline (hydrochloride)	0.0825
Tolbutamide	0.082
Hydroxyurea	0.0795
phloretin	0.0785
Fenbufen	0.0785
Reserpine (hydrochloride)	0.078
Cysteamine (Hydrochloride)	0.078
Phenindione	0.078
Methscopolamine (bromide)	0.0775
Tolfenamic Acid	0.0775
Tamsulosin	0.077
Tadalafil	0.0765
Lenalidomide	0.0765
Crypto chlorogenic acid	0.076
Teriflunomide	0.076
Sulfamethoxazole	0.075
Doxazosin (mesylate)	0.074
Trifluorothymidine	0.074

Tobramycin	0.0735
Ertapenem sodium	0.073
Econazole (nitrate)	0.0725
Felypressin	0.072
GS-7340 (hemifumarate)	0.0715
Pentostatin	0.07
Piroctone olamine	0.07
Rutin	0.0695
Prucalopride (succinate)	0.069
Pitavastatin (Calcium)	0.069
Tiagabine (hydrochloride)	0.0685
Fluocinonide	0.0645
Ramosetron (Hydrochloride)	0.0645
Zonisamide	0.064
Anastrozole	0.063
Tetrabenazine	0.063
Betamipron	0.0625
Mirabegron	0.0605
Temozolomide	0.0605
Capsaicin	0.0605
Alosetron (Hydrochloride)	0.0595
Fosinopril (sodium)	0.058
Pemetrexed (disodium)	0.0575
Betamethasone	0.0565
L-Carnitine	0.0565
Entacapone	0.056
Clozapine	0.0555
Methylprednisolone	0.055
Cefozopran (hydrochloride)	0.0545
Acetohexamide	0.054
Brivudine	0.053
Raltegravir (potassium salt)	0.0525
Methylnaltrexone (Bromide)	0.0525
Azaperone	0.051
Phthalylsulfacetamide	0.0505
Amlexanox	0.049
Lifitegrast	0.0485
Zaltoprofen	0.0485
Erlotinib	0.048
Fluconazole	0.048
Aspirin	0.0475
Anethole (trithione)	0.047
5-Aminosalicylic acid	0.047
Procyclidine (hydrochloride)	0.047
Warfarin	0.047

Ganciclovir	0.0455
Formestane	0.045
Imatinib	0.0445
Abacavir	0.044
Baclofen	0.044
Lidocaine	0.043
Coniteryl aldehyde	0.042
Avibactam (sodium hydrate)	0.041
Sulindac	0.041
Dolasetron (Mesylate hydrate)	0.04
Acipimox	0.039
Bendazol	0.039
Mosapride (citrate)	0.0385
Edaravone	0.038
Clonidine (hydrochloride)	0.036
Piperazine (malate)	0.033
Diphenylpyraline (hydrochloride)	0.0325
Linagliptin	0.0315
Plerixafor (octahydrochloride)	0.0295
Resorcinol	0.0295
Naftidrofuryl (oxalate)	0.0285
Betahistine (dihydrochloride)	0.0285
Dasatinib	0.0255
Acitretin	0.0255
Bucladesine (sodium salt)	0.022
Tirofiban (hydrochloride monohydrate)	0.022
Escitalopram (oxalate)	0.022
Alibendol	0.0205
Pyridostigmine (bromide)	0.02
D-Pinitol	0.019
Flupirtine (Maleate)	0.019
Tryptophol, 97%	0.0185
Mianserin (hydrochloride)	0.0185
Pibrentasvir	0.018
Boceprevir	0.0165
Didanosine	0.0165
Octinoxate	0.016
Phenylpiracetam	0.015
Bumetanide	0.015
Buflomedil (hydrochloride)	0.0145
Sunitinib	0.014
Ozagrel (sodium)	0.014
Testosterone (undecanoate)	0.014
Carbidopa	0.0125
Fosfomycin (calcium)	0.0115

Hydrocortisone (acetate)	0.011
Pramocaine (hydrochloride)	0.011
Acetylcholine (chloride)	0.011
Cephalexin	0.01
Cariprazine (hydrochloride)	0.01
Amoxapine	0.0085
Candesartan	0.008
Tetramisole (hydrochloride)	0.0055
Hydrochlorothiazide	0.0055
Azilsartan	0.0045
Fenspiride (Hydrochloride)	0.004
Etoposide	8.88178E-16
Famotidine	-0.0005
Empagliflozin	-0.0015
Phytic acid	-0.002
6-Acetamidohexanoic acid	-0.002
Acetaminophen	-0.0025
Lincomycin (hydrochloride hydrate)	-0.0025
Terlipressin	-0.004
BCH833	-0.0055
Mebhydrolin (napadisylate)	-0.007
Setiptiline (maleate)	-0.0075
Prednisolone (21-acetate)	-0.0075
Proglumide	-0.008
Thalidomide	-0.0085
Glycerol	-0.009
Azlocillin (sodium salt)	-0.009
gallic acid	-0.01
Galanthamine	-0.0125
Trimethadione	-0.013
Diacerein	-0.013
Metronidazole	-0.013
Epalrestat	-0.0135
Choline (chloride)	-0.0145
Diethylcarbamazine (citrate)	-0.0145
4-Aminopyridine	-0.016
Deoxycholic acid sodium salt	-0.0165
Chlorzoxazone	-0.0165
Propyl gallate	-0.017
Raltitrexed	-0.019
Alendronate (sodium hydrate)	-0.0195
Ceftriaxone (sodium salt)	-0.0195
Chlorhexidine (digluconate)	-0.0195
Hexamethylenetetramine	-0.0195
Cefuroxime (sodium)	-0.0205

Lomustine	-0.0205
Trapidil	-0.0205
Isoniazid	-0.0205
Fimasartan	-0.0225
Itopride (hydrochloride)	-0.0225
17-Hydroxyprogesterone	-0.0225
Ticlopidine (hydrochloride)	-0.023
Ambrisentan	-0.023
Diazoxide	-0.0245
Ibudilast	-0.0245
Lamotrigine	-0.0245
Streptozocin	-0.025
Pyrantel (pamoate)	-0.0255
Histamine (phosphate)	-0.0255
Nabumetone	-0.0265
Hydralazine (hydrochloride)	-0.028
Nizatidine	-0.0285
Gallic acid	-0.029
DEDS	-0.032
Bilastine	-0.032
Roxatidine (Acetate Hydrochloride)	-0.033
Plerixafor	-0.034
Octreotide (acetate)	-0.034
Nikethamide	-0.034
Safinamide	-0.0355
Mezlocillin (sodium)	-0.0375
Fudosteine	-0.0385
Ceftibuten (dihydrate)	-0.039
VX-809	-0.039
Ferulic acid	-0.0405
Edrophonium (chloride)	-0.042
L-Nicotine	-0.042
Acetazolamide	-0.042
Carboplatin	-0.0425
Chlormethine (hydrochloride)	-0.043
Papaverine (hydrochloride)	-0.0435
Vilazodone	-0.044
Rufinamide	-0.0445
Darunavir (Ethanolate)	-0.045
Metaxalone	-0.045
Lesinurad	-0.0465
Cisapride	-0.047
Gadopentetate (dimeglumine)	-0.0485
Dexmedetomidine (hydrochloride)	-0.0485
Protoporphyrin IX	-0.049

Amoxicillin (trihydrate)	-0.0495
pterostilbene	-0.0495
Olsalazine (Disodium)	-0.05
D-Panthenol	-0.05
Tripelennamine (hydrochloride)	-0.05
Dolutegravir (sodium)	-0.051
Ketorolac (tromethamine salt)	-0.053
Bemegride	-0.054
Silibinin	-0.055
Bosentan	-0.055
Malathion	-0.055
Desogestrel	-0.055
Dexchlorpheniramine (maleate)	-0.0555
Rauwolscine (hydrochloride)	-0.056
Alcaftadine	-0.0565
Azatadine (dimaleate)	-0.057
Oxacillin (sodium monohydrate)	-0.057
Ethamsylate	-0.0575
Amygdalin	-0.0585
Carbetapentane (citrate)	-0.061
Spectinomycin (dihydrochloride)	-0.061
Dirithromycin	-0.0615
Ropivacaine (hydrochloride monohydrate)	-0.062
Salicylic acid	-0.0625
Cefmetazole (sodium)	-0.063
Diphenidol (hydrochloride)	-0.065
Methimazole	-0.0655
Sodium gualenate	-0.0655
Bambuterol (hydrochloride)	-0.068
Deoxycholic acid	-0.068
Agomelatine	-0.069
Clevudine	-0.069
Bifonazole	-0.0705
Clindamycin (hydrochloride)	-0.071
Bendamustine (hydrochloride)	-0.071
Maprotiline (hydrochloride)	-0.0715
Velpatasvir	-0.074
Apixaban	-0.0755
Cefoperazone	-0.076
Ozagrel	-0.0765
Allopurinol	-0.079
S-(+)-Ketoprofen	-0.079
Doripenem (monohydrate)	-0.079
Acebutolol (hydrochloride)	-0.0805
Rivastigmine (tartrate)	-0.081

Suramin (sodium salt)	-0.0815
6-Aminocaproic acid	-0.082
Cefditoren (Pivoxil)	-0.0825
Ketoprofen	-0.083
10-Undecenoic acid (zinc salt)	-0.083
Valganciclovir (hydrochloride)	-0.084
delphinidin	-0.0845
oltipraz	-0.0855
Chlorophyllin	-0.0875
Fursultiamine	-0.0925
Adapalene	-0.0925
Methyl jasmmate	-0.093
Moxisylyte (hydrochloride)	-0.0935
Halothane	-0.0935
Dofetilide	-0.0935
Gemcitabine (Hydrochloride)	-0.096
Mephenesin	-0.096
Sumatriptan (succinate)	-0.0965
myricerin	-0.097
Amodiaquin (dihydrochloride dihydrate)	-0.0975
Fexofenadine (hydrochloride)	-0.0975
Piromidic acid	-0.098
Ginsenoside Rg2	-0.1
Etomidate (hydrochloride)	-0.1005
Aceclofenac	-0.102
Cefoxitin (sodium)	-0.104
Dutasteride	-0.104
Indinavir (sulfate)	-0.1045
Mirtazapine	-0.1045
Venlafaxine (hydrochloride)	-0.1055
Benactyzine hydrochloride	-0.1055
Atropine (sulfate monohydrate)	-0.1085
Granisetron (Hydrochloride)	-0.109
Bosentan (hydrate)	-0.1095
Cilostazol	-0.1105
Glyacid	-0.111
Nortriptyline (hydrochloride)	-0.111
Famciclovir	-0.111
Heptaminol (hydrochloride)	-0.111
Neomycin (sulfate)	-0.1115
Dabigatran (ethyl ester hydrochloride)	-0.112
Ibandronate (Sodium Monohydrate)	-0.1135
Cromolyn (sodium)	-0.1135
Tenoxicam	-0.114
Dibucaine	-0.1145

Vorinostat	-0.116
Protopanaxadiol	-0.1165
Trimipramine (maleate)	-0.117
Metrifonate	-0.1185
Ampicillin (sodium)	-0.1185
δ-Tocopherol	-0.1205
Vildagliptin	-0.1205
Fenoldopam (mesylate)	-0.121
Rb1	-0.122
3,3',5-Triiodo-L-thyronine (sodium)	-0.122
Chlorphenoxamine	-0.122
Vidarabine	-0.1235
Isosorbide mononitrate	-0.1255
Ornipressin	-0.1285
Bupivacaine (hydrochloride)	-0.129
Alogliptin (Benzoate)	-0.1295
Nicergoline	-0.13
Adiphenine (hydrochloride)	-0.1305
quercitrin hydrate	-0.131
LEE011 (succinate hydrate)	-0.1315
Sulbutiamine	-0.1315
Abarelix	-0.1325
Cytidine	-0.1325
Fenofibric acid	-0.1345
Caspofungin (Acetate)	-0.1345
3-hydroxytyrosol	-0.1355
Methylprednisolone succinate	-0.1385
Cefsulodin (sodium)	-0.1395
Tranilast	-0.14
Nedocromil	-0.1405
Clinofibrate	-0.141
Fasudil (Hydrochloride)	-0.142
Chlorambucil	-0.1425
Levosimendan	-0.143
Tocofersolan	-0.1435
Procyanidin A2	-0.144
Quinine	-0.144
Neostigmine (methyl sulfate)	-0.1445
Azithromycin	-0.1465
Oxaceprol	-0.148
Kaempferol	-0.149
Milrinone	-0.149
Lornoxicam	-0.1495
Terbutaline (sulfate)	-0.1505
Clorprenaline hydrochloride	-0.151

Methylthiouracil	-0.156
Flecainide (acetate)	-0.1565
Melphalan	-0.157
Succinylsulfathiazole	-0.1575
MALH116	-0.1575
Rabeprazole (sodium)	-0.159
Eflornithine (hydrochloride, hydrate)	-0.161
Anagliptin	-0.161
Miglitol	-0.1615
Azasetron (hydrochloride)	-0.163
MK-4827 (tosylate)	-0.1635
Imipramine (hydrochloride)	-0.1655
Phenytoin (sodium)	-0.166
Hirsute	-0.167
Trelagliptin	-0.1685
Osalmid	-0.1695
Riociguat	-0.17
Oxaprozin	-0.17
Lecithin	-0.172
Decursin	-0.1725
Dimesna	-0.173
Furosemide	-0.173
Verteporfin	-0.1755
L-Ornithine	-0.1755
Entecavir (monohydrate)	-0.176
Primidone	-0.1765
D-Cycloserine	-0.177
Doxapram (hydrochloride hydrate)	-0.1795
Mizoribine	-0.18
Coumesterol	-0.181
Apremilast	-0.181
Methoxsalen	-0.1815
Oseltamivir (phosphate)	-0.182
LINALYN ISOVALERATE	-0.1835
Rofecoxib	-0.184
Oxytetracycline	-0.185
Trilostane	-0.189
Esmolol (hydrochloride)	-0.189
Rasagiline (mesylate)	-0.189
Atenolol	-0.19
Chlormezanone	-0.192
Citric acid	-0.1925
Histamine	-0.193
Etoricoxib	-0.1945
Mitoxantrone	-0.1945

Guanidine (hydrochloride)	-0.1945
Pyrimethamine	-0.196
Milnacipran (hydrochloride)	-0.197
Oxytocin (acetate)	-0.1985
Sulfaphenazole	-0.2015
Berberine (chloride hydrate)	-0.202
Baricitinib	-0.2025
Hesperetin	-0.2035
Teneligliptin (hydrobromide)	-0.2035
Balsalazide	-0.2055
Scopolamine (hydrobromide)	-0.209
Ibutilide (fumarate)	-0.2155
Rocuronium (Bromide)	-0.2155
Chlorthalidone	-0.2155
Spironolactone	-0.216
Drospirenone	-0.217
Atomoxetine (hydrochloride)	-0.22
Etonogestrel	-0.2205
Noopept	-0.2215
Naproxen	-0.2225
R-(-)-Deprenyl (hydrochloride)	-0.223
Levodropropizine	-0.2235
Tetracaine	-0.224
LCZ696	-0.2255
Voglibose	-0.227
Epirubicin (hydrochloride)	-0.227
Troxipide	-0.2285
penta-O-galloy- β -glucose (Penta-O-G- β)	-0.2285
Terpin (hydrate)	-0.2295
Ampiroxicam	-0.232
Valacyclovir (hydrochloride)	-0.236
Rosiglitazone	-0.2365
Metformin (hydrochloride)	-0.237
p-Coumaric acid	-0.2375
Cefprozil (monohydrate)	-0.2393
Ruxolitinib	-0.242
UK 14,304 (tartrate)	-0.242
Dolasetron	-0.248
Dimetridazole	-0.25
Bisacodyl	-0.25
Suplatast (Tosilate)	-0.252
Furagin	-0.255
Betaine (hydrochloride)	-0.2555
Metamizole (sodium hydrate)	-0.257
Midecamycin	-0.269

Gadodiamide (hydrate)	-0.269
Mitoxantrone (dihydrochloride)	-0.271
Pinitol	-0.2765
Darunavir	-0.277
Piperacillin (sodium)	-0.2805
Risedronate (sodium)	-0.285
Pyrazinamide	-0.285
Vigabatrin (Hydrochloride)	-0.286
Vitamin B12	-0.286
Pramiracetam	-0.288
Pseudobaptigenin	-0.289
Natamycin	-0.293
Dichlorisone acetate	-0.294
Chlorophyllin (sodium copper salt)	-0.2945
Erlotinib (Hydrochloride)	-0.304
Raspberry ketone	-0.308
Eslicarbazepine (acetate)	-0.308
Ramelteon	-0.3085
Halobetasol (propionate)	-0.3135
Mepivacaine (hydrochloride)	-0.317
Nicorandil	-0.323
Tenofovir (Disoproxil Fumarate)	-0.331
Idramantone	-0.333
Peramivir (trihydrate)	-0.339
Sulfameter	-0.343
Guacetisal	-0.346
Lodoxamide	-0.35
Meclofenoxate (hydrochloride)	-0.352
mevinolin	-0.3545
Sulfogaiacol	-0.365
Resveratrol	-0.365
Quercetin	-0.3675
Pralatrexate	-0.37
Fluvastatin (sodium)	-0.372
Rutin	-0.375
Ginsenoside Re	-0.3765
Bromfenac (sodium hydrate)	-0.3795
Abacavir (sulfate)	-0.3815
Ambroxol	-0.387
Pidotimod	-0.392
Desloratadine	-0.394
Irinotecan	-0.398
Vismodegib	-0.409
Acamprosate (calcium)	-0.411
Iguratiomod	-0.419

Norepinephrine (bitartrate monohydrate)	-0.419
Cefpirome (sulfate)	-0.421
Ofloxacin	-0.421
Eicosapentaenoic Acid	-0.423
Pranoprofen	-0.427
Chenodeoxycholic Acid	-0.432
Diclofenac (Sodium)	-0.432
Luliconazole	-0.432
Prednisolone	-0.442
Exemestane	-0.455
Bupropion (hydrochloride)	-0.457
Sulfamethazine	-0.457
Theophylline	-0.47
Indapamide	-0.473
Allantoin	-0.476
Etravirine	-0.482
Acemetacin	-0.487
Retinoic acid	-0.488
Benserazide (hydrochloride)	-0.488
Protocatechuic acid	-0.4885
Montelukast (sodium)	-0.491
pyridoxine hydrochloride	-0.4925
Lidocaine (hydrochloride)	-0.503
Loxapine (succinate)	-0.509
Misoprostol	-0.517
Meprednisone	-0.523
Amiloride hydrochloride dihydrate	-0.524
Dithranol	-0.531
Cefmenoxime (hydrochloride)	-0.533
Thiamphenicol	-0.535
Dorzolamide (hydrochloride)	-0.535
Lesinurad (sodium)	-0.537
Amoxicillin (sodium)	-0.539
Niflumic acid	-0.55
Chlorpropamide	-0.553
Ornidazole	-0.561
Enalaprilat (dihydrate)	-0.562
Flutamide	-0.564
Sotalol (hydrochloride)	-0.565
Azelastine (hydrochloride)	-0.58
Dienogest	-0.581
Piperine	-0.5935
D-Sorbitol	-0.599
Deflazacort	-0.611
Clenbuterol (hydrochloride)	-0.614

Levocarnitine propionate (hydrochloride)	-0.615
Amantadine (hydrochloride)	-0.617
Naftopidil	-0.627
Etodolac	-0.628
Metolazone	-0.631
Parecoxib (Sodium)	-0.657
Cyclophosphamide (hydrate)	-0.659
Chromocarb	-0.668
Troglitazone	-0.668
Terbinafine	-0.669
Propylthiouracil	-0.669
Taurochenodeoxycholic acid	-0.677
Prostaglandin E2	-0.6995
Molindone (hydrochloride)	-0.701
Emeramide	-0.704
Cyclandelate	-0.704
Tofacitinib (citrate)	-0.72
Clopidogrel (hydrogen sulfate)	-0.734
Meptazinol (hydrochloride)	-0.734
Ceftizoxime (sodium)	-0.752
Rivastigmine	-0.7547
LEE011	-0.758
Sulfamonomethoxine	-0.782
Medroxyprogesterone	-0.79
Olmесartan	-0.797
Sorafenib	-0.811
Tioconazole	-0.838
Amitriptyline (hydrochloride)	-0.848
Clofoctol	-0.85
Aniracetam	-0.859
Betamethasone dipropionate	-0.873
Loxoprofen	-0.888
MLN2238	-0.895
Benzamil hydrochloride	-0.896
Telmisartan	-0.9021
Gefarnate	-0.918
Moclobemide	-0.918
Desoximetasone	-0.921
Homatropine (Bromide)	-0.947
Phenazopyridine (hydrochloride)	-0.966
Oxyclozanide	-0.967
Lenalidomide (hemihydrate)	-0.968
Olaparib	-0.979
Tosufloxacin (tosylate hydrate)	-0.981
Diphenhydramine (hydrochloride)	-0.989

Idarubicin (hydrochloride)	-0.995
Quetiapine	-1.0109
Minaprine	-1.016
Imidafenacin	-1.066
Danthron	-1.067
Amisulpride	-1.077
Icotinib (Hydrochloride)	-1.085
6-Thioguanine	-1.085
Sulfamethizole	-1.089
Mestranol	-1.098
L-Glutamic acid monosodium salt	-1.099
Bicalutamide	-1.145
Ketanserin (tartrate)	-1.151
Valproic acid (sodium salt)	-1.163
Pimavanserin	-1.169
Tedizolid (phosphate)	-1.1902
Eltrombopag	-1.202
L-Epinephrine (Bitartrate)	-1.202
Teneligliptin	-1.236
Betaxolol	-1.255
Nylidrin (hydrochloride)	-1.271
Tenofovir (Disoproxil)	-1.28
Pirfenidone	-1.304
Cefoselis (sulfate)	-1.353
Cyclobenzaprine (hydrochloride)	-1.384
Clarithromycin	-1.397
Sulfisomidin	-1.408
Leflunomide	-1.408
Sivelestat	-1.4092
Flufenamic acid	-1.426
Estropipate	-1.432
Aceglutamide	-1.441
Nifuroxazide	-1.4773
Brompheniramine (maleate)	-1.495
Belotecan (hydrochloride)	-1.497
Guanabenz (Acetate)	-1.507
Cytarabine	-1.517
Telbivudine	-1.526
Teprenone	-1.529
Nandrolone decanoate	-1.553
Folic acid	-1.641
Phentolamine (mesylate)	-1.678
INT-747	-1.704
Glycopyrrolate	-1.707
Ademetionine	-1.738

Neostigmine (Bromide)	-1.745
Erdosteine	-1.758
Chlorpromazine (hydrochloride)	-1.779
Diosmin	-1.814
(-)-Sparteine (sulfate pentahydrate)	-1.816
Pravastatin (sodium)	-1.818
Iproniazid (phosphate)	-1.825
Capecitabine	-1.832
Lansoprazole	-1.973
Chlorothiazide	-2.011
Simvastatin	-2.033
t-4-H-3-mca	-2.051
Pyrantel (tartrate)	-2.082
Tasimelteon	-2.094
L-Epinephrine	-2.117
Sitagliptin (phosphate monohydrate)	-2.158
Allyl isothiocyanate	-2.1635
Saxagliptin	-2.216
Zofenopril (calcium)	-2.233
Mozavaptan	-2.323
CH5424802 (Hydrochloride)	-2.329
Prednisone	-2.388
Pargyline (hydrochloride)	-2.4055
Pentoxifylline	-2.44
2-hydroxycinnamic acid (2-HXC)	-2.453
Nelarabine	-2.4637
Alfuzosin	-2.5169
Nefazodone (hydrochloride)	-2.519
Butylated Hydroxyanisole (BHA; 2[3]-t-Butyl-4-hydroxyanisole)	-2.546
(R)-(-)-Phenylephrine (hydrochloride)	-2.56
Trimethobenzamide hydrochloride	-2.574
Sulfalene	-2.587
Bestatin	-2.5935
Azelaic acid	-2.611
Sulfathiazole (sodium)	-2.6143
Ramipril	-2.6214
Fluocinolone (Acetonide)	-2.6341
Mefloquine (hydrochloride)	-2.664
Doxorubicin (hydrochloride)	-2.75
Formoterol (Fumarate)	-2.765
Dabrafenib (Mesylate)	-2.846
Homatropine (methylbromide)	-2.878
Noscapine	-3.026
Sapropterin (dihydrochloride)	-3.16
8-Gingerol	-3.6635

Novobiocin (Sodium)	-3.738
Menadione	-3.873
Azaphen (dihydrochloride monohydrate)	-4.3335
Sulpiride	-4.432
Tazobactam	-4.537